

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY DOCKET NO. 1634.1007	APPLICATION NO. 10/733,328
<b>INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>		FIRST NAMED INVENTOR Ryusuke MASUOKA	
		FILING DATE December 12, 2003	GROUP/ART UNIT 2195

**U.S. PATENT DOCUMENTS – PAGE 1 OF 9**

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	A1	5 530 861 A	06-1996	Diamant, John R. et al.			
	A24	2002/0107939	08/08/2002	Ford et al.			
	A3	6,556,875	04/29/2003	Nagasaka et al.			
	A4						
	A5						
	A6						

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	COUNTRY	TRANSLATION YES NO		ENGLISH ABSTRACT
	B1						
	B2						
	B3						
	B4						
	B5						
	B6						

EXAMINER	DATE CONSIDERED
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

FORM PTO-1449  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  <b>INFORMATION DISCLOSURE STATEMENT</b>  <i>(Use several sheets if necessary)</i>	ATTORNEY DOCKET NO.	APPLICATION NO.
	1634.1007	10/733,328
	FIRST NAMED INVENTOR	
	Ryusuke MASUOKA	
	FILING DATE	GROUP/ART UNIT
	December 12, 2003	2195

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)			TRANSLATION YES NO	
	C1	ANKOLEKAR, Anupriya, et al., "DAML-S: Web Service Description for the Semantic Web", The Semantic Web – ISWC 2002. First International Web Conference Proceedings (Lecture Notes in Computer Science Vol. 2342), The Semantic Web – ISWC 2002; XP-002276131; Sardinia, Italy; June 2002; (pps. 348-363)	NA	
	C2	BADER, Gary D., et al., "BioPAX – Biological Pathways Exchange Language, Level 1, Version 1.0 Documentation; © 2004 BioPAX Workgroup, BioPAX Recommendation [online] July 7, 2004; Retrieved from the Internet: <URL: <a href="http://www.biopax.org/release/biopax-level1.owl">http://www.biopax.org/release/biopax-level1.owl</a> >	NA	
	C3	DE ROURE, David, et al., "E-Science", Guest Editors' Introduction, IEEE Intelligent Systems; Published by the IEEE Computer Society, © January/February 2004 IEEE, pp. 24-63	NA	
	C4	"Gene Ontology Consortium" OBO – Open Biological Ontologies; [online] [Retrieved on October 22, 2004] Retrieved from the Internet <URL: <a href="http://www.geneontology.org/">http://www.geneontology.org/</a> > (6 pages)	NA	
	C5	HANDSCHUH S., et al. "Annotation for the deep web", IEEE Intelligent Systems, IEEE Service Center, New York, NY, US, Vol. 18, No. 5, Sept. 1, 2003; pages 42-48; XP011101996 ISSN: 1094-7167 - Abstract (1 page)	NA	
	C6	Zhexuan Song, et al. "Dynamic Service Discovery and Management in Task Computing", pp. 310-318, MobiQuitous 2003, August 22-26, 2004, Boston, pp. 1-9.	NA	
	C7	MaizeGDB, "Welcome to MaizeGDB!", Maize Genetics and Genomics Database; [online] [Retrieved on October 22, 2004] Retrieved from the Internet < <a href="http://www.maizegdb.org/">http://www.maizegdb.org/</a> >	NA	
	C8	MARENCO et al., "QIS: A framework for biomedical database federation" Journal of the American Medical Informatics Association, Hanley and Belfus, Philadelphia, PA, US, Vol. 11, No. 6, Nov. 1, 2004; pps. 523-534, XP005638526; ISSN: 1067-5027	NA	

EXAMINER	DATE CONSIDERED
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY DOCKET NO. 1634.1007	APPLICATION NO. 10/733,328
<b>INFORMATION DISCLOSURE STATEMENT</b>  <i>(Use several sheets if necessary)</i>		FIRST NAMED INVENTOR Ryusuke MASUOKA	
		FILING DATE December 12, 2003	GROUP/ART UNIT 2195

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)			TRANSLATION YES NO	
	C9	RAMEY, Chet; "Bash Reference Manual", Version 2.02, April 1, 1998; XP-002276132; pp. i-iv; p. 1; and pp. 79-96	NA	
	C10	Trellis, "Capturing and Exploiting Semantic Relationships for Information and Knowledge Management", The Trellis Project at Information Sciences Institute (ISI), [online] [Retrieved on October 22, 2004] Retrieved from the Internet <URL: <a href="http://www.isi.edu/ikcap/trellis/">http://www.isi.edu/ikcap/trellis/</a> > 2 pages	NA	
	C11	Information Sciences Institute; USC Viterbi School of Engineering; [online] [Retrieved on October 22, 2004] Retrieved from the Internet <URL: <a href="http://www.isi.edu">http://www.isi.edu</a> > 2 pages	NA	
	C12	Mindswap – Maryland Information and Network Dynamics Lab Semantic Web Agents Project; SWOOP – Hypermedia-based OWL Ontology Browser and Editor; [online] [Retrieved on October 22, 2004] Retrieved from the Internet <URL: <a href="http://www.mindswap.org/2004/SWOOP">http://www.mindswap.org/2004/SWOOP</a> > (3 pages)	NA	
	C13	Mindswap – Maryland Information and Network Dynamics Lab Semantic Web Agents Project; OntoLink; Semantic Web Research Group; [online] [Retrieved on October 22, 2004] Retrieved from the Internet <URL: <a href="http://www.mindswap.org/2004/OntoLink">http://www.mindswap.org/2004/OntoLink</a> > (2 pages)	NA	
	C14	Mindswap – Maryland Information and Network Dynamics Lab Semantic Web Agents Project; Pellet OWL Reasoner; [online] [Retrieved on October 22, 2004] Retrieved from the Internet <URL: <a href="http://www.mindswap.org/2003/pellet/index.shtml">http://www.mindswap.org/2003/pellet/index.shtml</a> > (3 pages)	NA	
	C15	HAARSLEV, Volker, "Racer", RACER System Description; News: New Racer Query Language Available; [online] [Retrieved on October 22, 2004] Retrieved from the Internet <URL: <a href="http://www.cs.concordia.ca/~haarslev/racer">http://www.cs.concordia.ca/~haarslev/racer</a> > (10 pages)	NA	
	C16	Jambalaya, the CHISEL group; CH/SEL – Computer Human Interaction & Software Engineering Lab, Home; [online] [Retrieved on October 22, 2004] Retrieved from the Internet <URL: <a href="http://www.thechiselgroup.org/jambalaya">http://www.thechiselgroup.org/jambalaya</a> > (1 page)	NA	

EXAMINER	DATE CONSIDERED
<b>*EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY DOCKET NO. 1634.1007	APPLICATION NO. 10/733,328
<b>INFORMATION DISCLOSURE STATEMENT</b>  <i>(Use several sheets if necessary)</i>		FIRST NAMED INVENTOR Ryusuke MASUOKA	
		FILING DATE December 12, 2003	GROUP ART UNIT 2195

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)			TRANSLATION	
			YES	NO
	C17	MALIK, Ayesha, "XML, Ontologies, and the Semantic Web", XML Journal, Openlink Virtuoso; [online] [Retrieved on October 22, 2004] Retrieved from the Internet <URL: <a href="http://www.sys-con.com/xml1/article.cfm?id=577">http://www.sys-con.com/xml1/article.cfm?id=577</a> > (7 pages).	NA	
	C18	ALTSCHUL, SF, et al., "Basic local alignment search tool", National Center for Biotechnology information, National Library of Medicine, National Institutes of Health, Bethesda, Maryland 20894; [online] [Retrieved on October 22, 2004] Retrieved from the Internet <URL: <a href="http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&amp;db=&gt;">http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&amp;db=&gt;</a> (3 pages)	NA	
	C19	NCBI BLAST <i>Information</i> ; [online] [Retrieved on October 22, 2004] Retrieved from the Internet <URL: <a href="http://www.ncbi.nih.gov/Education/BLASTinfo/information3.html">http://www.ncbi.nih.gov/Education/BLASTinfo/information3.html</a> > (1 page)	NA	
	C20	Example of Terrorism Ontology; [online] [Retrieved on December 16, 2004] Retrieved from the Internet <URL: <a href="http://www.mindswap.org/2003/owl/swint/terrorism">http://www.mindswap.org/2003/owl/swint/terrorism</a> > (7 pages)	NA	
	C21	GUTTMAN, E., et al., "Service Location Protocol, Version 2", Network Working Group; @ Home Network; Vinca Corporation; June 1999 (pps. 1-55)	NA	
	C22	MASUOKA, Ryusuke, et al., "Task Computing – The Semantic Web meets Pervasive Computing –" Fujitsu Laboratories of America, Inc., [online] vol. 2870, 2003, pages 866-881, <URL: <a href="http://www.mindswap.org">http://www.mindswap.org</a> > XP-002486064	NA	
	C23			
	C24			

EXAMINER	DATE CONSIDERED
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY DOCKET NO. 1634.1007	APPLICATION NO. 10/733,328
<b>INFORMATION DISCLOSURE STATEMENT</b>  <i>(Use several sheets if necessary)</i>		FIRST NAMED INVENTOR Ryusuke MASUOKA	
		FILING DATE December 12, 2003	GROUP/UNIT 2195

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)			TRANSLATION YES NO	
	C25	Rysuke Masuoka, et al. "Semantic Web and Ubiquitous Computing-Task Computing as an Example-" AIS SIGSEMIS Bullentin, Vol. 1 No. 3, October 2004, pp. 21-24.	NA	
	C26	Rysuke Masuoka, et al. "Ontology-Enabled Pervasive Computing Applications, "IEEE Intelligent Systems, vol. 18, no. 5, Sep./Oct. 2003 (2003-09-01), pp. 68-72.	NA	
	C27	Rysuke Masuoka, et al. "Task Computing- Semantic-web enabled, user driven, interactive environments, WWW Based Communities For Knowledge Presentation, Sharing, Mining and Protection (The PSMP workshop) within CIC 2003, June 23-26, 2003, pp. 1	NA	
	C28	Rysuke Masuoka, et al. "Task Computing - Filling the Gap Between Tasks and Services, " Fujitsu, VOL.55;NO.4; PAGES 376-383 (2004) (In Japanese) (English Abstract) (1 page)	NA	
	C29	Masuoka Ryusuke, DAML Program and the Semantic Web : Toward a More Ontological World, Journal of Japanese Society for Artificial Intelligence, Japan 2002.7 17(4) pp.392-399 (pp.397-398 "6. The future of DAML")		X
	C30	GOBLE, C., et al., Semantic Web and Grid Computing, [online], 2002.9.5., pp. 1 - 23, [H20.8.27. search], Internet<URL: <a href="http://www.semanticgrid.org/documents/swgc/swgc-final.pdf">http://www.semanticgrid.org/documents/swgc/swgc-final.pdf</a> (pp.16-17 "8.1 MyGrid ( <a href="http://www.mygrid.org.uk">www.mygrid.org.uk</a> )" and Figure 5)	NA	
	C31	PREECE, A., et al., Intelligent Web Services, Intelligent Systems, IEEE, 2002.1., Vol. 17, Issue 1, pp. 15 - 17 (p16, Column right and p17, Column left)	NA	
	C32	1. The Semantic Grid, [online], 2002.10., [H21.1.5. search] , Internet<URL: <a href="http://web.archive.org/web/20021011030835/http://www.semanticgrid.org/documents/">http://web.archive.org/web/20021011030835/http://www.semanticgrid.org/documents/</a> >	NA	
	C33	The Semantic Web - ISWC 2002, First International Semantic Web Conference, Sardinia, Italy, June 9 - 12, 2002, Proceedings, Springer, 2002.6.9., [H21.1.6. search], Internet<URL: <a href="http://www.springer.com/computer/database+management+%26+information+retrieval/book/978-3-540-43760-4?detailsPage=toc">http://www.springer.com/computer/database+management+ %26+information+retrieval/book/978-3-540-43760-4?detailsPage=toc</a> >	NA	

EXAMINER	DATE CONSIDERED
<p><b>*EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

**ATTACHMENT 1(e)**

<b>EXPLANATIONS OF RELEVANCY OF REFERENCES</b>	ATTORNEY DOCKET NO.	APPLICATION NO.
	1634.1007	10/733,328
	FIRST NAMED INVENTOR	
	Ryusuke MASUOKA	
	FILING DATE	GROUP ART UNIT
	December 12, 2003	2195

Please note that the references listed on the attached PTO-1449, items C29-C31 were cited in a Japanese Office Action mailed on September 9, 2008 and issued in related Japanese Patent Application 2003-422759 (4 pages)

Please note that the references listed on the attached PTO-1449, items C32 and C33 were cited in a Japanese Office Action mailed on January 13, 2009 and issued in related Japanese Patent Application 2003-422759 (2 pages)

**ATTACHMENT 1(f)**

<b>LIST OF COPENDING APPLICATIONS</b>	ATTORNEY DOCKET NO.	APPLICATION NO.
	1634.1007	10/733,328
	FIRST NAMED INVENTOR	
	Ryusuke MASUOKA	
	FILING DATE	GROUP ART UNIT
	December 12, 2003	2195

The following, prior-filed, copending U.S. patent application(s) is/are listed in accordance with the duty of disclosure provisions of 37 CFR § 1.56, so that the Examiner may consider same should he deem any thereof to be material to examination of the subject application. Pursuant to 37 CFR § 1.98(a)(2)(iii), a copy of the identified copending application(s) is provided, UNLESS DOMESTIC PRIORITY IS CLAIMED THEREON UNDER 35 U.S.C. § 120 AND/OR THE APPLICATION IS PUBLISHED. 37 CFR § 1.98(a)(2)(II),(III) AND 1.98(3)(d)(1).

It is requested that the Examiner acknowledge his consideration of application(s) below-listed by initialing same in the space provided adjacent each such application and that the Examiner sign and date this form at the bottom thereof to confirm such consideration having been given.

**This submission in no way represents an admission that any of the information listed herein constitutes prior art with respect to the subject application; and unless and until such prior art status is established, this submission is not a request that the information presented herein be printed on the face of any patent issuing from the subject application in which this information is being filed.**

**U.S. PATENT APPLICATION DOCUMENTS – PAGE 6 OF 9**

*EXAMINER INITIAL		U.S. SERIAL NO.	FILING DATE	NAME	ASSIGNEE
	1	11/014,904	12/20/2004	Patrick Joseph Armstrong	Fujitsu Limited Kawasaki, Japan
	2	11/115,403	04/27/2005	Yannis Labrou, et al.	Fujitsu Limited Kawasaki, Japan
	3				
	4				
	5				
	6				
	7				
	8				

EXAMINER	DATE CONSIDERED
<p>*EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

<b>LIST OF ADDITIONAL SUBMITTED DOCUMENTS</b>	ATTORNEY DOCKET NO.	APPLICATION NO.
	1634.1007	10/733,328
	FIRST NAMED INVENTOR	
	Ryusuke MASUOKA	
	FILING DATE	GROUP ART UNIT
	December 12, 2003	2195

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			TRANSLATION	
			YES	NO
	D1	European Search Report Communication issued May 7, 2004 in related Europeans Application No. 03257974.0 – 1243 (4 pages)	NA	
	D2	European Patent Office Communication issued September 5, 2005 in related European Application No. 03257974.0 – 1243 (12 pages)	NA	
	D3	European Patent Office Communication issued January 22, 2007 in related European Application No. 03257974.0 – 1243	NA	
	D4	First Notification of Office Action issued by the State Intellectual Property Office of China on July 27, 2007 in related China Application No. 200310123963.2, including the Text of the First Office Action (28 pages)	X	
	D5	First Notification of Office Action (PCT Application Entry Into the National Phase) issued by the State Intellectual Property Office of China on December 7, 2007, in the related Chinese Patent Application No. 200580013453.7 (22 pages)	X	
	D6	Second Notification of Office Action issued by the State Intellectual Property Office of China on January 4, 2008, in related Chinese Patent Application No. 200310123963.2 (2 pages)	X	

EXAMINER	DATE CONSIDERED
<p><b>*EXAMINER:</b> Initial if document considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	



<b>LIST OF ADDITIONAL SUBMITTED DOCUMENTS</b>	ATTORNEY DOCKET NO.	APPLICATION NO.
	1634.1007	10/733,328
	FIRST NAMED INVENTOR	
	Ryusuke MASUOKA	
	FILING DATE	GROUP ART UNIT
	December 12, 2003	2195

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			TRANSLATION	
			YES	NO
	D7	First Notification of Office Action issued by the State Intellectual Property Office of China on March 14, 2008 in corresponding Chinese Patent Application No. 200510132687.5 (9 pages)	X	
	D8	Second Notification of Office Action issued by the State Intellectual Property Office of China on September 5, 2008 in corresponding Chinese Patent Application No. 200510132687.5, including the Text of the Second Office Action (8 pages)	X	
	D9	Third Notification of Office Action issued by the State Intellectual Property Office of China on May 9, 2008 in related China Application No. 200310123963.2, including the Text of the Third Office Action (8 pages)	X	
	D10	Rejection Decision issued by the State Intellectual Property Office of China on September 5, 2008 in related China Application No. 200310123963.2, including the Text of the Decision for Rejection (8 pages)	X	
	D11	Extended European Search Report Communication issued August 11, 2008 in corresponding European Application No. 05027181.6 – 1527/1672537	NA	
	D12	Notice of Completion of Formalities for Patent Registration with the Notice of Decision of Granting Patent Right for Invention, dated October 10, 2008, issued in related China Application No. 200580013453.7	X	
	D13	Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration issued June 27, 2006 in related International Application No. PCT/US05/14557	NA	

EXAMINER	DATE CONSIDERED
<p><b>*EXAMINER:</b> Initial if document considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

<b>LIST OF ADDITIONAL SUBMITTED DOCUMENTS</b>	ATTORNEY DOCKET NO.	APPLICATION NO.
	1634.1007	10/733,328
	FIRST NAMED INVENTOR	
	Ryusuke MASUOKA	
	FILING DATE	GROUP ART UNIT
	December 12, 2003	2195

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			TRANSLATION YES NO	
	D14	Notification Concerning Transmittal of Copy of International Preliminary Report on Patentability (Chapter I of the Patent Cooperation Treaty) mailed November 9, 2006 in related international Application No. PCT/US2005/014557	NA	
	D15	Supplementary European Search Report issued by the EPC on July 18, 2008 in related European Application No. 05739051.0 – 1243	NA	
	D16	Notice Requesting Submission of Opinion filed November 15, 2007 in related Korean Application No. 10-2006-7017143	X	
	D19	U.S. Office Action mailed June 9, 2009 in co-pending related application 11/115,403 (4 pages)	NA	
	D20	U.S. Office Action mailed October 27, 2009 in co-pending related application 11/115,403 (27 pages)	NA	
	D21	U.S. Office Action mailed October 13, 2009 in co-pending related application 11/014,904 (6 pages)	NA	
	D22			
	D23			

EXAMINER	DATE CONSIDERED
<p><b>*EXAMINER:</b> Initial if document considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

<b>LIST OF ADDITIONAL SUBMITTED DOCUMENTS</b>	ATTORNEY DOCKET NO.	APPLICATION NO.
	1634.1007	10/733,328
	FIRST NAMED INVENTOR	
	Ryusuke MASUOKA	
	FILING DATE	GROUP ART UNIT
	December 12, 2003	2195

The following document(s) is/are listed in accordance with the duty of disclosure provisions of 37 CFR § 1.56, so that the Examiner may consider same should he deem any thereof to be material to examination of the subject application.

It is requested that the Examiner acknowledge his consideration of document(s) below-listed by initialling same in the space provided adjacent each such application and that the Examiner sign and date this form at the bottom thereof to confirm such consideration having been given.

**This submission in no way represents an admission that any of the information listed herein constitutes prior art with respect to the subject application; and unless and until such prior art status is established, this submission is not a request that the information presented herein be printed on the face of any patent issuing from the subject application in which this information is being filed.**

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			TRANSLATION	
			YES	NO
	D24	Japan Office Action mailed on September 9, 2008 and issued in related Japanese Patent Application 2003-422759 (4 pages)		X
	D25	Japanese Office Action mailed on January 13, 2009 and issued in related Japanese Patent Application 2003-422759 (2 pages)		X
	D26			
	D4			
	D27			
	D28			

EXAMINER	DATE CONSIDERED
<p><b>*EXAMINER:</b> Initial if document considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	